

Work Order ID 153280

Tuesday, November 15, 2016 12:57:25 PM

153280

Page 1

Item ID: 647.7304

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 11/29/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

DAS
21
9-89

Date: NOV 15 2016

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/ -
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

647.7300

C

DAS
21
9-89

NOV 15 2016

DAS
21
9-89

16-11-11

100

Document Control

DOCUMENT CONTROL

100

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 647.7304

DAS
27
9-89

JAN 18 2017

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

DAS
6
9-89

NOV 15 2016

DAS
28
9-89

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

DAS
27
9-89

JAN 18 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : _____					

Work Order ID 153280***153280***

Page 2

Tuesday, November 15, 2016 12:57:25 PM

Item ID: 647.7304

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 11/29/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

130

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP 647.7304

Location: **F9102**DAS
27
9-89DAS
28
9-89

JAN 18 2017

140

140

QC

QC21- Final Inspection - Work Order Release

Memo

0.00

Quality Control

DAS
21
9-89

JAN 19 2017

DAS
21
9-89

JAN 19 2017

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :						
Misidentified	☐	Past Due	☐							

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Page 1

153280

647 7304

Required Qty: 1.00

Comments: IPP REV:A 16.04.27 NEW ISSUE DD VERF:JLM IPP
REV:B 16.11.15 dwg rev.c DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
600.0990		Purchased	No				Each	17.0000		1			
5/30/2017 DAS 28 9-89 DAS 28 9-89 Location CA2 M135600 PKG M134167 M134249 M135213 Loc Qty 12 12 5 1 2 2 Loc Code													
5/30/2017 DAS 28 9-89 DAS 28 9-89 Location CA2 m135600 PKG m134167 m134249 m135213 Loc Qty 12 12 4 1 1 2 Loc Code													
600.0991		Purchased	No				Each	16.0000		1			
5/30/2017 DAS 27 9-89 DAS 27 9-89 Location CA2 m135600 PKG m134167 m134249 m135213 Loc Qty 12 12 4 1 1 2 Loc Code													
600.1012		Purchased	No				Each	13.0000		1			
EXP date 1/17/17 DAS 28 9-89 DAS 27 9-89 Location cck017 m135407 m135600 m135840 Loc Qty 13 1 2 10 Loc Code													

ENP
date
5/01/2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		FAULT CATEGORY Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER :							

Picklist Print

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Page 2

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

601.2045 Purchased No Each 9.0000

601 2045

RTV (LOCTITE 598)

**

136/71

DAS 6 9-89

NOV 21 2016

DAS 28 9-89

Location

Loc Qty

Loc Code

CCK096

1

m135628

1

GA

8

m134260

8

601.2375 Manufactured No Each 62.0000

601 2375

Washer

**

NOV 16 2016

DAS 6 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

CCK096

62

91708

62

601.2999 Manufactured No Each 60.0000

601 2999

Screw

**

NOV 16 2016

DAS 6 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

CCK098

60

91707

10

93369

50

601.3004 Purchased No Each 14.0000

601 3004

Camloc Stud - 26S8-11

**

NOV 16 2016

DAS 6 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

CCK098

14

M130388

14

Tuesday, November 15, 2016 12:57:29 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date: _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

601.3005 Manufactured No

Each 4.0000 2

601 3005

Camloc Retainer - 2600-LW

NOV 16 2016 DAS 6 28
9-89 9-89

Location Loc Qty Loc Code

CCK098

4

151173

2

153183

2

601.3006 Purchased No

Each 14.0000 2

601 3006

Camloc Receptacle - 20A-1

NOV 16 2016 DAS 6 28
9-89 9-89

Location Loc Qty Loc Code

CCK098

14

M130388

14

601.3011 Manufactured No

f 64.3000 1.4

601 3011

P-Seal

NOV 16 2016 DAS 6 28
9-89 9-89

Location Loc Qty Loc Code

CCK095

50

91709

50

CCK099

14.3

M130388

14.3

CUT AT 16.00"

601.3902 Manufactured No

Each 1.0000 2

601 3902

Eye Bolt

NOV 13 2016 DAS 6 28
9-89 9-89

Location Loc Qty Loc Code

cck101

1

147212

1

Tuesday, November 15, 2016 12:57:29 PM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : _____									

Picklist Print

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Page 4

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.0112 Manufactured No

Each 79.0000 4

647 0112

Strut Bracket

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS 27 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK107

54

150114

42

151352

12

CCK108A

25

150895

15

151894

10

647.1601 Manufactured No

Each 3.0000 1

647 1601

Wiper Deflector Aft

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS 27 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK091

3

148295

1

151482

2

647.1602 Manufactured No

Each 24.0000 1

647 1602

Doubler Assembly

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

CCK107

24

92479

3

MT30388

21

647.1610 Manufactured No

Each 17.0000 1

647 1610

Wiper Deflector Fwd

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS 27 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK091

17

125082

13

MT30388

4

Tuesday, November 15, 2016 12:57:29 PM

Shop Packet Print

Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

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Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.1814

Manufactured No

Each

33.0000

1

647 1814

Gusset LH

NOV 16 2016

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK110

3

106843

3

cck122A

30

92075

6

M130388

24

647.1815

Manufactured No

Each

31.0000

1

647 1815

Gusset RH

NOV 16 2016

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK110

7

106681

3

92076

4

cck122A

24

M130388

24

647.1818

Manufactured No

Each

30.0000

1

647 1818

Nose Door Spacer

NOV 16 2016

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK110

6

92079

4

93302

2

cck122A

24

M130388

24

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER : _____									

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Page 7

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.1913 Manufactured No

Each 18.0000 1

647 1913

Tee

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK093

18

114126

3

92229

10

94139

5

Each

5.0000

1

**

NOV 16 2016
DAS 6 9-89
DAS 28 9-89

647.1914 Manufactured No

647 1914

Bracket

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK110

5

109733

5

Each

26.0000

1

**

NOV 16 2016
DAS 6 9-89
DAS 28 9-89

647.1915 Manufactured No

647 1915

Support Angle

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK093

26

114127

6

92230

6

93416

3

M130388

11

Each

4.0000

1

**

NOV 16 2016
DAS 6 9-89
DAS 28 9-89

647.2114 Manufactured No

647 2114

Upper U Channel

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck001

4

147224

4

NOV 16 2016
DAS 6 9-89
DAS 28 9-89

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Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. 240		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : 24 08 2023		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER :							

Picklist Print

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Page 8

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.3201
647 3201
Grounding Cable Assembly

DAS
27
9-89

Manufactured No

Each 4.0000

**

DAS
6
9-89

NOV 16 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

cck111

4

123417

4

647.7501
647 7501
Lower Cutter Assembly

DAS
27
9-89

Manufactured No

Each 0.0000

**

1

DAS
6
9-89

JAN 13 2017

DAS
28
9-89

647.7701
647 7701
Strut Assembly

DAS
27
9-89

Manufactured No

Each 0.0000

**

2

DEC 14 2016

DAS
6
9-89

647.7702
647 7702
Strut Assembly

DAS
27
9-89

Manufactured No

Each 3.0000

**

2

DAS
6
9-89

NOV 16 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK076

3

146723

3

647.7819
647 7819
Cross Bracket Fwd

DAS
27
9-89

Manufactured No

Each 10.0000

**

1

DAS
6
9-89

NOV 16 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK115

10

130656

1

M130388

9

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.7821

Manufactured No

Each

12.0000

1

647 7821

Eye Bolt Fitting LH

**

DAS 6 28
9-89 9-89
NOV 16 2016

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK115

3

121378

3

CCK121

9

130388

7

M130388

2

647.7822

Manufactured No

Each

9.0000

1

647 7822

Eye Bolt Fitting RH

**

DAS 6 28
9-89 9-89
NOV 16 2016

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK115

3

123827

3

CCK121

6

M130388

6

647.7823

Manufactured No

Each

4.0000

1

647 7823

Cross Bracket Aft

**

DAS 6 28
9-89 9-89
NOV 16 2016

DAS 27
9-89

Location

Loc Qty

Loc Code

cck086

4

146665

4

647.7910

Manufactured No

Each

6.0000

2

647 7910

Angle Bracket

**

DAS 6 28
9-89 9-89
NOV 16 2016

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK115

6

93329

6

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date: _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By _____		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : _____									

Picklist Print

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Page 10

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.7911 Manufactured No

Each 15.0000 2

647 7911

Bracket

NOV 16 2016 **DAS 6 28**
9-89 9-89

Location

Loc Qty

Loc Code

CCK115

15

93383

1

M130388

14

647.7912 Manufactured No

Each 12.0000 4

647 7912

Clip

NOV 16 2016 **DAS 6 28**
9-89 9-89

Location

Loc Qty

Loc Code

CCK115

12

93312

12

647.7913 Manufactured No

Each 6.0000 2

647 7913

Doubler

NOV 16 2016 **DAS 6 28**
9-89 9-89

Location

Loc Qty

Loc Code

CCK115

6

93270

6

647.7914 Manufactured No

Each 5.0000 1

647 7914

Bracket

NOV 16 2016 **DAS 6 28**
9-89 9-89

Location

Loc Qty

Loc Code

CCK115

5

93215

2

M130388

3

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

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Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.7915

Manufactured No

Each

14.0000

1

647 7915

Bracket

Location

Loc Qty

Loc Code

cck116

14

93301

1

M130388

13

NOV 16 2016

DAS 621
9-89

DAS 27
9-89

647.7916

Manufactured No

Each

22.0000

2

647 7916

Bracket

Location

Loc Qty

Loc Code

cck116

22

93287

2

M130388

20

NOV 16 2016

DAS 28
9-89

DAS 27
9-89

647.7917

Manufactured No

Each

18.0000

1

647 7917

Bracket

Location

Loc Qty

Loc Code

cck116

18

131356

14

93254

1

M130388

3

NOV 16 2016

DAS 28
9-89

DAS 27
9-89

647.7918

Manufactured No

Each

16.0000

1

647 7918

Bracket

Location

Loc Qty

Loc Code

cck116

16

119630

12

93385

1

M130388

3

NOV 16 2016

DAS 28
9-89

DAS 27
9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

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Page 12

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.7919

Manufactured No

Each

3.0000

1

647 7919

Shim

**

NOV 16 2016

DAS 28
6 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

cck116

3

93337

3

Each

60.0000

20

647.8510

Manufactured No

647 8510

Insert

**

NOV 16 2016

DAS 28
6 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

cck116

60

M130388

60

Each

0.0000

4

647.8511

Manufactured No

647 8511

Insert

**

DEC 12 2016
NOV 16 2016

DAS 28
6 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

cck116

14

M130388

14

Each

14.0000

2

647.8512

Manufactured No

647 8512

Insert

**

NOV 16 2016

DAS 28
6 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

cck116

14

M130388

14

Each

30.0000

4

93635A212

Purchased No

93635A212

Bolt

**

NOV 16 2016

DAS 28
6 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

ST558

30

m134700

30

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date: _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-11A Purchased No

Each 96.0000 4

AN3-11A

Bolt

NOV 16 2016

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST349

96

m135390

2

m135767

94

AN316C4R

Purchased No

Each 13.0000

AN316C4R

Nut, Jam

NOV 16 2016

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST331

13

m135840

13

AN3-4A

Purchased No

Each 221.0000

AN3-4A

Bolt

NOV 16 2016

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST350

221

m135704

221

AN44-12A

Purchased No

Each 22.0000

AN44-12A

Eyebolt

NOV 16 2016

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST339

22

124131

2

124263

20

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

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Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

AN4C7A Purchased No

Each 96.0000 4

AN4C7A

BOLT

**

NOV 16 2016 DAS 6 28 9-89 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

OVER002

70

m135864

70

ST345

26

m135470

26

AN4CH6A Purchased No

Each 40.0000

AN4CH6A

Bolt

**

NOV 16 2016 DAS 6 28 9-89 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST345

40

123525

20

m126176

20

AN665-34R Purchased No

Each 23.0000

AN665-34R

Clevis

**

NOV 16 2016 DAS 6 28 9-89 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST330

23

M135603

3

M135948

20

CCR264SS-3-03 Purchased No

Each 118.0000

CCR264SS-3-03

Cherry Rivet

**

NOV 16 2016 DAS 6 28 9-89 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

LG001

87

m128606

25

m134023

62

ST321

31

m135127

31

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Page 15

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

CCR274SS-3-03

Purchased

No

Each

109.0000

4

CCR274SS-3-03

Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

ST321

109

123785

109

**

NOV 16 2016

DAS
28
9-89

DAS
6
9-89

CR3212-5-6

Purchased

No

Each

91.0000

2

CR3212-5-6

Cherry Rivet

DAS
27
9-89

06

Location

Loc Qty

Loc Code

CCK003

91

124259

91

**

NOV 16 2016

NOV 16 2016

DAS
28
9-89

DAS
6
9-89

CR3213-4-2

Purchased

No

Each

287.0000

4

CR3213-4-2

Cherry Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

100

m135979

100

over003

100

m135704

100

ST320

87

m134058

87

**

NOV 16 2016

DAS
28
9-89

DAS
6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By _____					
				Lead hand / Supervisor Approval Verification _____					
				QC / QA Coordinator Approval _____					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 16

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-3

Purchased

No

Each

385.0000

24

CR3213-4-3

Rivet, Cherry

**

DAS 6 28
9-89 9-89
NOV 16 2016

Location

Loc Qty

Loc Code

CCK003

300

m135470

100

m136042

200

ST319

85

m131340

10

m135135

75

Each

239.0000

16

CR3213-4-4

Purchased

No

CR3213-4-4

Rivet, Cherry

**

DAS 6 28
9-89 9-89
NOV 16 2016

Location

Loc Qty

Loc Code

ST319

239

M135536

239

Each

225.0000

8

CR3213-4-5

Purchased

No

CR3213-4-5

Rivet

**

DAS 6 28
9-89 9-89
NOV 16 2016

Location

Loc Qty

Loc Code

CCK003

100

M129913

100

ST319

125

M129913

125

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 17

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-6

Purchased

No

Each

213.0000

CR3213-4-6

Rivet

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK003

100

M135978

100

ST319

113

M131800

113

CR3213-5-3

Purchased

No

Each

161.0000

CR3213-5-3

Cherry Rivet

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK003

100

m135865

100

ST319

61

m135408

61

CR3213-5-4

Purchased

No

Each

265.0000

CR3213-5-4

Cherry Rivet

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK004

200

m128179

100

m128199

100

ST319

53

123785

53

WA003

12

117543

12

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

CR3522-4-3

Purchased

No

Each

108.0000

CR3522-4-3

Rivet

**

8

NOV 16 2016

DAS 6 9-89

DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST318

108

124876

100

m130388

8

8

CR3522-5-3

Purchased

No

Each

0.0000

CR3522-5-3

Rivet

**

8

136/99

DAS 6 9-89

NOV 22 2016

DAS 28 9-89

DAS 27 9-89

CR3523-4-3

Purchased

No

Each

80.0000

CR3523-4-3

Rivet

**

4

NOV 16 2016

DAS 6 9-89

DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST317

80

m129764

80

4

CR3523-4-4

Purchased

No

Each

186.0000

CR3523-4-4

Rivet

**

24

NOV 16 2016

DAS 6 9-89

DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK003

100

m127255

100

ST318

86

124259

84

m130388

2

24

CR3523-5-3

Purchased

No

Each

76.0000

CR3523-5-3

Rivet

**

8

NOV 16 2016

DAS 6 9-89

DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST317

76

m134962

76

8

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

LN9025-0820K

Purchased

No

Each

12.0000

I N9025-0820K

Lock Tab Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

ST564

12

m136136

12

Each

4.0000

**

YX m136211

NOV 16 2016

DAS 6 28
9-89 9-89

LN9037-08018

Purchased

No

Each

4.0000

I N9037-08018

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST564

4

m136136

4

Each

0.0000

**

m135766

NOV 16 2016

DAS 6 28
9-89 9-89

MS21042-08

MS21042L08

Purchased

No

Each

0.0000

MS21042-08

USE MS21042L08

DAS
27
9-89

MS21042-3

MS21042L3

Purchased

No

Each

0.0000

MS21042-3

Nut

DAS
27
9-89

MS21042L08

Purchased

No

Each

1,010.000

**

m135767

NOV 16 2016

DAS 6 28
9-89 9-89

MS21042L08

Nut

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

50

m135274

50

ST303

960

m135672

1

m135766

159

m135948

300

m135978

500

NOV 16 2016
DAS 6 28
9-89 9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																	
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		OTHER : _____																																																																							

Picklist Print

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Page 20

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

1,964.000

4

MS21042L4

Nut

NOV 16 2016

DAS
28
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

34

m133363

34

GA

204

m135058

204

OVER007

500

m135979

500

ST303

1226

m135774

226

m135864

1000

4

MS21042L5

Purchased

No

Each

486.0000

4

MS21042L5

Nut

NOV 16 2016

DAS
28
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

25

m127813

25

OVER007

200

m136047

200

ST303

261

m135297

91

m135344

100

m135774

70

4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date: _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

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Page 21

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047-3

Purchased

No

Each

185.0000

12

MS21047-3

Nut Plate

**

NOV 16 2016

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST301

185

m135603

5

m135774

90

m136047

90

12

DAS
6
9-89

MS21266-2N

Purchased

No

Each

47.0000

1

MS21266-2N

Grommet

**

NOV 16 2016

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST294

47

123900

40

M130388

7

1

DAS
6
9-89

MS24694-S54

Purchased

No

Each

198.0000

5

MS24694-S54

SCREW

**

NOV 16 2016

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

198

m135672

13

m135948

185

5

DAS
6
9-89

MS27039-08-07

Purchased

No

Each

100.0000

1

MS27039-08-07

SCREW

**

NOV 16 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST278

100

m132035

100

1

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor Approval Verification
					QC / QA Coordinator Approval
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____	

Picklist Print

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Page 22

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-13

Purchased

No

Each

72.0000

4

MS27039-08-13

Screw

**

NOV 16 2016

DAS
6
9-89
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST278

72

124326

72

4

MS27039-08-19

Purchased

No

Each

291.0000

5

MS27039-08-19

Screw

**

NOV 16 2016

DAS
6
9-89
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

182

m135948

182

ST277

109

m135865

9

m136042

100

5

MS27039-1-07

Purchased

No

Each

181.0000

3

MS27039-1-07

Screw

**

NOV 16 2016

DAS
6
9-89
28
9-89

Location

Loc Qty

Loc Code

GA

2

125654

2

ST281

179

m135948

179

3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date: _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

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Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-09

Purchased

No

Each

255.0000

12

MS27039-1-09

Screw

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

50

124859

50

ST280

171

m125646

13

m125654

53

m135056

105

MS27039-1-10

Purchased

No

Each

471.0000

6

MS27039-1-10

SCREW

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

GA

17

m129541

17

over006

300

m135774

300

ST280

154

m135603

154

MS27039-1-12

Purchased

No

Each

71.0000

2

MS27039-1-12

Screw

**

NOV 16 2016

DAS 28
9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

ST280

71

m135566

71

DAS 6
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Tuesday, November 15, 2016 12:57:30 PM

Page 24

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-14

Purchased

No

Each

706.0000

MS27039-1-14

Screw

DAS 6 28 9-89
NOV 16 2016

Location

Loc Qty

Loc Code

GA

94

120449

94

over006

500

124326

500

ST280

112

124326

112

MS27039-1-15

Purchased

No

Each

93.0000

MS27039-1-15

Screw

DAS 6 28 9-89
NOV 16 2016

Location

Loc Qty

Loc Code

GA

5

m127916

5

ST280

88

m134852

88

MS27039-1-16

Purchased

No

Each

122.0000

MS27039-1-16

Screw

DAS 6 28 9-89
NOV 16 2016

Location

Loc Qty

Loc Code

over006

100

m135865

100

ST280

22

m135566

22

Tuesday, November 15, 2016 12:57:30 PM

Shop Packet Print

Page 24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Tuesday, November 15, 2016 12:57:30 PM

Page 25

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-17

Purchased

No

Each

167.0000

MS27039-1-17

Screw (601.1954)

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

150

m127831

150

ST280

17

120142

17

Each

1,676.000

MS27039-1-18

Purchased

No

MS27039-1-18

Screw

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

245

123522

45

124326

200

over006

1200

124326

1200

ST280

231

124326

231

Each

1,167.000

NAS1149C0432R

Purchased

No

NAS1149C0432R

WASHER

**

NOV 16 2016

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

373

m134676

373

ST266

794

m135979

794

Tuesday, November 15, 2016 12:57:30 PM

Shop Packet Print

Page 25

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Tuesday, November 15, 2016 12:57:30 PM

Page 26

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

2,610.000

89

NAS1149F0332P

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

343

m133709

343

ST262

2267

m135544

267

m135948

2000

87

DAS 6 28
9-89 9-89

NOV 16 2016

NAS1149F0532P

Purchased

No

Each

1,641.000

4

NAS1149F0532P

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

ST260a

600

m133725

600

ST262

1041

18057

1041

4
25

DAS 6 28
9-89 9-89

NOV 16 2016

NAS1149FN832P

Purchased

No

Each

1,463.000

25

NAS1149FN832P

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

1285

M135058

1285

ST263

178

M135603

178

25

DAS 6 28
9-89 9-89

NOV 16 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
3				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Tuesday, November 15, 2016 12:57:30 PM

Page 27

Work Order ID: 153280

153280

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 11/15/2016

Required Date: 11/29/2016

Start Qty: 1.00

Required Qty: 1.00

NAS6603-12

Purchased

No

Each

136.0000

4

NAS6603-12

Bolt

**

NOV 16 2016
DAS 6 9-89
DAS 28 9-89

Location

Loc Qty

Loc Code

st552

136

123900

124

- m130388

12

NAS6603-16

Purchased

No

Each

81.0000

4

NAS6603-16

Bolt

**

NOV 16 2016
DAS 6 9-89
DAS 28 9-89

Location

Loc Qty

Loc Code

st552

81

m128199

19

- m130388

12

m133523

50

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Shop Packet Print

Page 27

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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NOTES: UNLESS OTHERWISE SPECIFIED

1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.

2 APPLY F/N 91 TO FAYING SURFACES.

3 DELETED.

4 MATCH DRILL HOLES THROUGH F/N 26 or F/N 98 AND FUSELAGE.

5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.

6 AT CUSTOMERS OPTION, INSTALL F/N 96 BY MATCH DRILLING ONTO F/N 1 FOR KIT P/N 647.7301 or F/N 99 FOR KIT P/N 647.7304.

7 647.7301 INSTALLATION FOR EC135.

8 647.7304 INSTALLATION FOR EC135 T2/P2.

9 EXCEPT WHERE NOTED, INSTALLATION FOR 647.7304 AND 647.7307 SAME AS 647.7301.

10 CUT LENGTH: 16 INCHES.

11 INSTALLATION FOR 647.7307 AND 647.7304 ARE IDENTICAL EXCEPT 647.1405 (F/N 111) REPLACES 647.1404 (F/N 99).

12 DETAIL W REFLECTS THE UNIQUE 647.1405 ASSEMBLY (F/N 111) USED ON 647.7307 THAT REPLACES 647.1404 (F/N 99) ON 647.7304.

13 ADDITIONAL KITS FOR SUB-ASSEMBLIES OF THE 647.7301, 647.7304, AND 647.7307 ASSEMBLIES ARE DEFINED BY MPP-195

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 153280 MLC
16-11-15

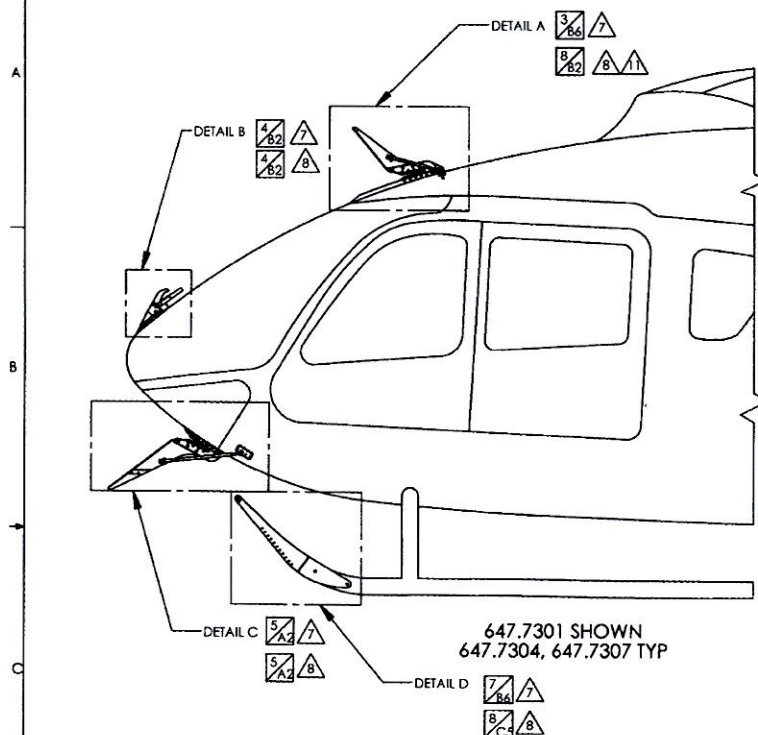
4	4	4	50	601.3130	BOLT	NAS6603-16	
4	4	4	49	601.1500	BOLT	NAS6603-12	
4	4	4	48	601.2669	BOLT	ANAC7A	
1	1	1	47	601.1324	BOLT	ANACH6A	
4	4	4	46	601.2826	BOLT	ANQ-11A	
2	2	2	45	601.2823	BOLT	AN3-4A	
12	12	12	44	600.0795	NUTPLATE	MS21047-3	
2	2	2	43	601.3004	CAMLOC STUD		
2	2	2	42	601.3005	CAMLOC RETAINER		
2	2	2	41	601.3006	CAMLOC RECEPTACLE		
4	4	4	40	601.3119	CLEVIS	AN665-34R	
2	2	2	39	601.3120	EYE BOLT	AN44-12A	
			38	601.3121	EYE BOLT	AN44-5A	
1	1	1	37	601.3007	GROMMET	MS21266-2N	
A/R	A/R	A/R	36	601.3011	P-SEAL		
1	1	1	35	647.3201	GROUNDING CABLE ASSY		
			4	647.2511	NUT		
			4	647.2510	SLEEVE		
13	13	13	32	647.1812	SHIM		
2	2	2	31	647.1811	SPACER		
1	1	1	30	647.1602	DOUBLER ASSY		
1	1	1	29	647.1914	BRACKET		
1	1	1	28	647.7822	EYE BOLT FITTING RH		
1	1	1	27	647.7821	EYE BOLT FITTING LH		
			1	647.7818	MOUNTING CHANNEL		
7307	7304	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE REVISION: PER		NIC
1/C	INITIAL RELEASE	01/13/09	P. BRAVO
A	INCORPORATED ECH 02938, 03000, 03044, 03066	02/12/11	P. BRAVO
B	INCORPORATED ECH 03225	03/07/14	P. BRAVO
C	INCORPORATED ECH 03580, 05448	11/01/16	P. BRAVO

1	1	1	25	647.7820	CROSS BRACKET AFT		
1	1	1	24	647.7819	CROSS BRACKET FWD		
1	1	1	23	647.7918	BRACKET		
1	1	1	22	647.7917	BRACKET		
2	2	2	21	647.7916	BRACKET		
1	1	1	20	647.7915	BRACKET		
1	1	1	19	647.7914	BRACKET		
2	2	2	18	647.7913	DOUBLER		
4	4	4	17	647.7912	CLIP		
2	2	2	16	647.7911	BRACKET		
2	2	2	15	647.7910	ANGLE BACKET		
4	4	4	14	647.0112	STRUT BRACKET		
1	1	1	13	647.1810	NOSE DOOR DOUBLER		
1	1	1	12	647.1818	NOSE DOOR SPACER		
2	2	2	11	647.7701	STRUT ASSY		
2	2	2	10	647.7702	STRUT ASSY		
1	1	1	9	647.1815	GUSSET, RH		
1	1	1	8	647.1814	GUSSET, LH		
1	1	1	7	647.1915	SUPPORT ANGLE		
1	1	1	6	647.1913	TEE		
1	1	1	5	647.1610	WIPER DEFLECTOR, FWD		
1	1	1	4	647.1601	WIPER DEFLECTOR ASSY, AFT		
			3	647.1701	SKID DEFLECTOR ASSY		
1	1	1	2	647.7501	LOWER CUTTER ASSY		
			1	647.7401	UPPER CUTTER ASSY		
X				647.7307	EC135 T3/P3 CABLE CUTTERS KIT		
				647.7306	T2/P2 REMOVABLE PROVISIONS KIT		
				647.7305	T2/P2 FIXED PROVISIONS KIT		
				647.7304	EC135 T2/P2 CABLE CUTTERS KIT		
X				647.7303	T1/P1 REMOVABLE PROVISIONS KIT		
				647.7302	T1/P1 FIXED PROVISIONS KIT		
				647.7301	EC135 T1/P1 CABLE CUTTERS KIT		
7307	7304	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC

PARTS LIST			
QTY	DESCRIPTION	MAT'L	SPEC
NEXT ASSY (S)			
ORIGINAL DATE 11/24/09 DRAWN BY A. GUAN CHECKED BY P. BRAVO DRAWING APPROVAL: P. BRAVO DATE: 01/13/09 CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.01 ANGLES ±.5°			
DART AEROSPACE 3030 ENTERPRISE CT., SUITE A, VISTA, CA, 92081 (760)-724-5300			
EC135 CABLE CUTTERS KIT			
SIZE B	CAGE CODE 07M26	QWG. NO. 647.7300	REV. C
SCALE NONE		SHEET 1 OF 8	

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647.7301 SHOWN
647.7304, 647.7307 TYP

1			111	647.1405	CUTTER ASSY (UPPER)		
2	2		110	601.3902	EYE BOLT		
2	2		109	601.2910	SCREW	MS27039-1-18	
4	4		108	601.3963	BOLT	93435A-212	
8	8		107	601.3654	BOLT	U49037-08018	
8	8		106	601.3655	LOCK WASHER	U49025-08020	
2	2		105	647.1702	SKID DEFLECTOR ASSY		
8	8	8	104	601.3214	CHERRY RIVET	CR3213-5-3	
24	24	24	103	601.3213	CHERRY RIVET	CR3213-4-4	
4	4	4	102	601.3212	CHERRY RIVET	CR3213-4-3	
5	5		101	601.1541	LOCKNUT	MS21042-08	
5	5		100	601.2765	SCREW	MS27039-0819	
1	1		98	647.2114	UPPER U CHANNEL		
1	1		97	647.7823	CROSS BRACKET AFT		
1	1	1	96	647.5701	GPS MOUNT KIT		
7307	7304	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC

		8	95	601.1097	WASHER	NAS1149PD463P	
		1	94	647.7919	SHIM		
A/R	A/R	A/R	93	600.0990	MAGNOBOND 6398 PART A		
A/R	A/R	A/R	92	600.0991	MAGNOBOND 6398 PART B		
A/R	A/R	A/R	91	601.2045	RIV	LOCTITE 298	
A/R	A/R	A/R	90	600.1012	SEALANT	PR-1425 CLASS B	
3	3	3	89	601.2375	WASHER		
4	4	4	88	601.3126	WASHER	NAS1149F0532P	
12	12	8	87	601.3663	WASHER	NAS1149C0432R	
89	89	86	86	601.1607	WASHER	NAS1149F0332P	
25	25	14	85	601.2764	WASHER	NAS1149F0832P	
2	2	2	84	601.3136	CHERRY RIVET	CR3212-5-6	
8	8	8	83	601.3215	CHERRY RIVET	CR3522-5-3	
8	8	8	82	601.3216	CHERRY RIVET	CR3522-4-3	
12	12	12	81	601.2481	CHERRY RIVET	CR3213-5-4	
16	16	16	80	601.2020	CHERRY RIVET	CR3213-5-3	
17	17	17	79	601.2991	CHERRY RIVET	CR3213-4-6	
8	8	8	78	601.1183	CHERRY RIVET	CR3213-4-5	
16	16	16	77	601.1915	CHERRY RIVET	CR3213-4-4	
24	24	24	76	601.0790	CHERRY RIVET	CR3213-4-3	
4	4	4	75	601.1604	CHERRY RIVET	CR3213-4-2	
4	4	4	74	601.1983	NUTPLATE RIVET	CCR27455-3-03	
24	24	24	73	601.2207	NUTPLATE RIVET	CCR27455-3-03	
3	3	3	72	601.2999	SCREW		
5	5	6	71	601.2829	SCREW	MS24694554	
2	2	2	70	601.1954	SCREW	MS27039-1-17	
4	4	4	69	601.2637	SCREW	MS27039-1-16	
1	1	1	68	601.3012	SCREW	MS27039-1-15	
4	4	4	67	601.1622	SCREW	MS27039-1-14	
2	2	2	66	601.1953	SCREW	MS27039-1-12	
6	6	6	65	601.1365	SCREW	MS27039-1-10	
12	12	12	64	601.3069	SCREW	MS27039-1-09	
3	3	3	63	601.2198	SCREW	MS27039-1-07	
		2	62	601.3137	SCREW	MS27039-0816	
4	4	4	61	601.2988	SCREW	MS27039-0813	
1	1	1	60	601.2525	SCREW	MS27039-0807	
4	4	4	59	601.3127	LOCKNUT	MS21042-5	
2	2	2	58	647.8512	INSERT		
4	4	4	57	647.8511	INSERT		
20	20	18	56	647.8510	INSERT		
4	4	4	55	601.3128	NUT	AN316C4R	
4	4	8	54	601.3209	LOCKNUT	MS21042-4	
35	35	34	53	601.2943	LOCKNUT	MS21042-3	
5	5	7	52	601.2973	LOCKNUT	MS21042-08	
		4	51	601.3002	BOLT	NAS6604-66	
7307	7304	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC

ORIGINAL DATE
11/24/09
DRAWN BY
A. QUIN
CHECKED
D. BARRETT
DESIGNED
P. BRADY
CONTRACT NO.

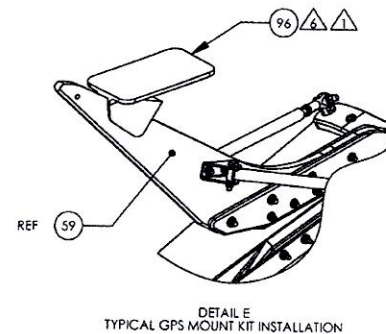
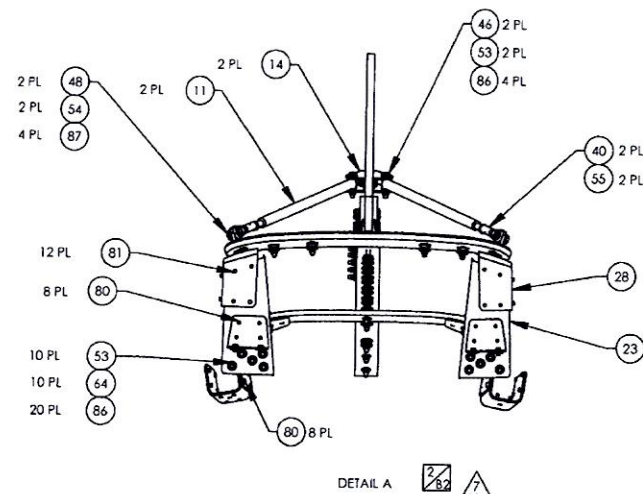
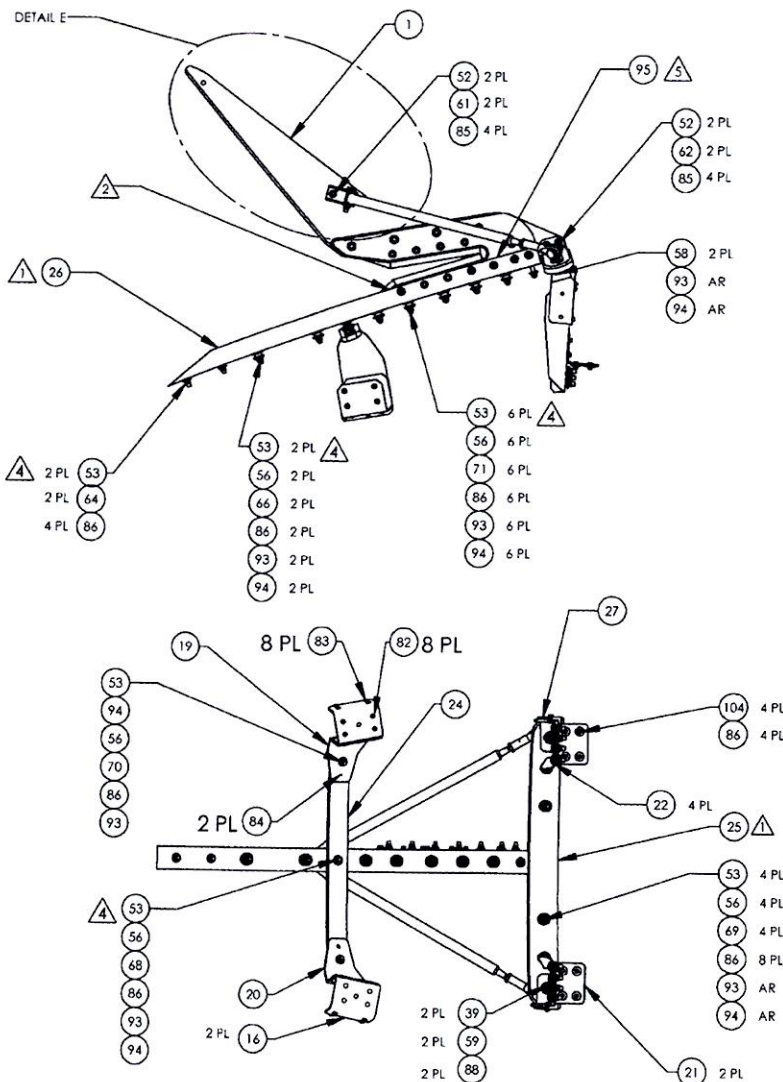
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.5°

DART
AEROSPACE
APICAL INDUSTRIES INC.
3030 ENTERPRISE CT.,
SUITE A
VISTA, CA 92081
(760)-724-5300

EC135 CABLE CUTTERS KIT

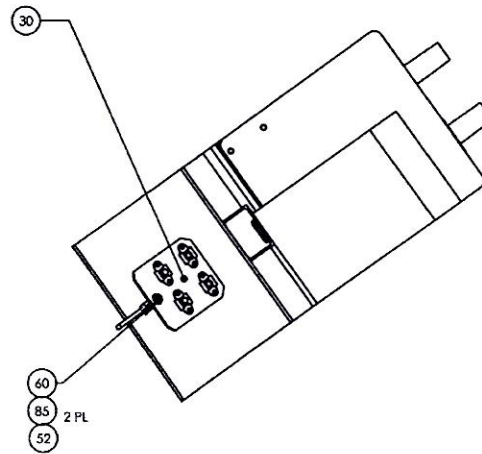
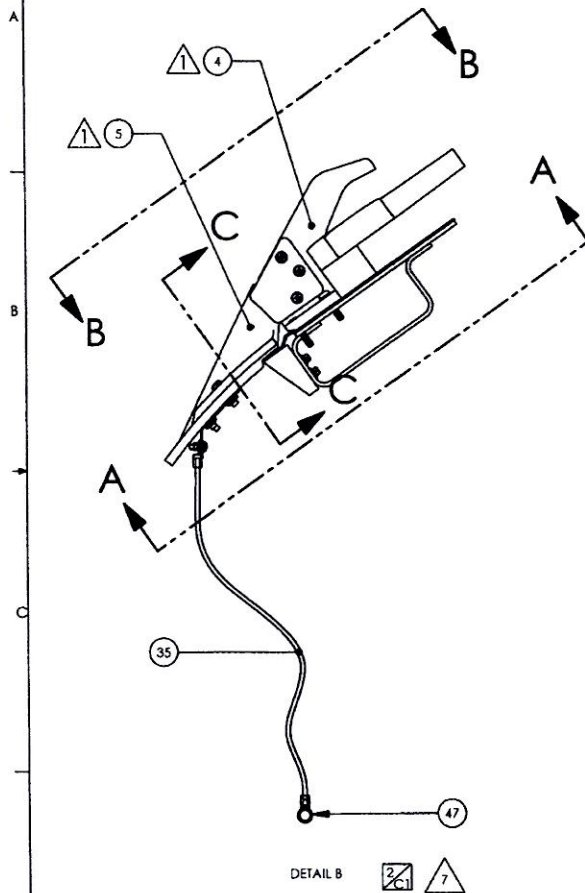
REV. C
SCALE NONE
SHEET 2 OF 8

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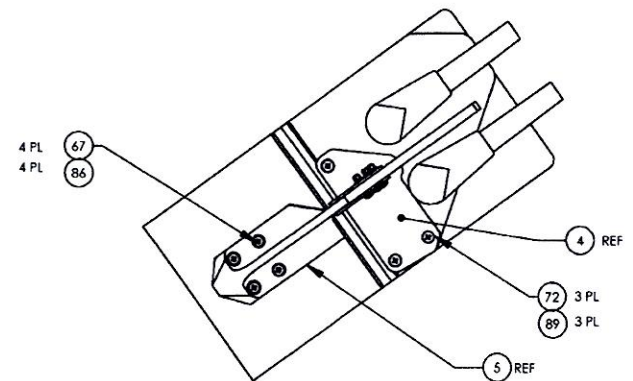


OFFICIAL DATE (MM-DD-YY)		11/24/09	
DRAWN BY A. QUAN		CHECKED D. BARKER	
DRAWING APPROVAL P. BRAYO		DATE 11/24/09	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760) 724-5300	
APICAL INDUSTRIES INC. DBA DART AEROSPACE			
EC135 CABLE CUTTERS KIT			
REV B	CAGE CODE 07MA26	DWG. NO. 647.7300	REV. C
SCALE: NONE		SHEET 3 OF 8	

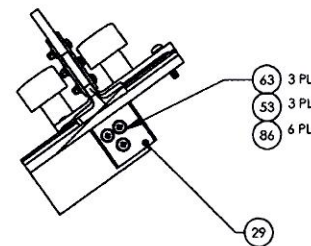
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



SECTION A-A



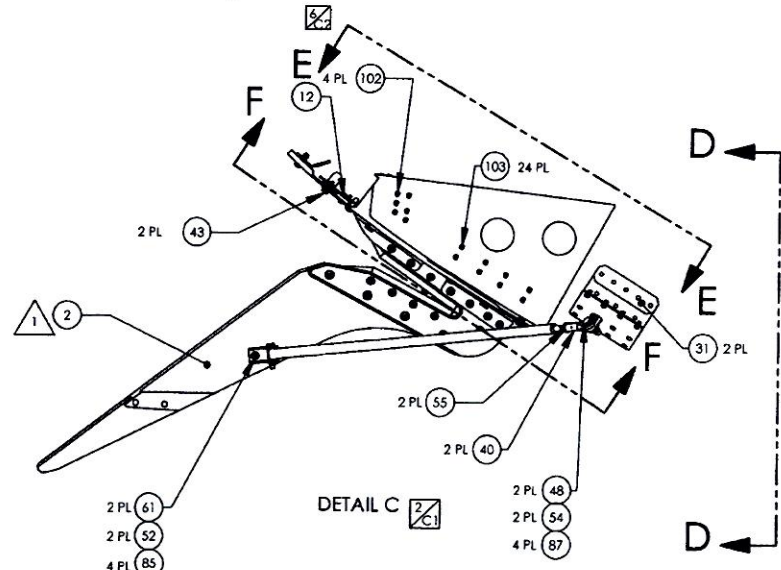
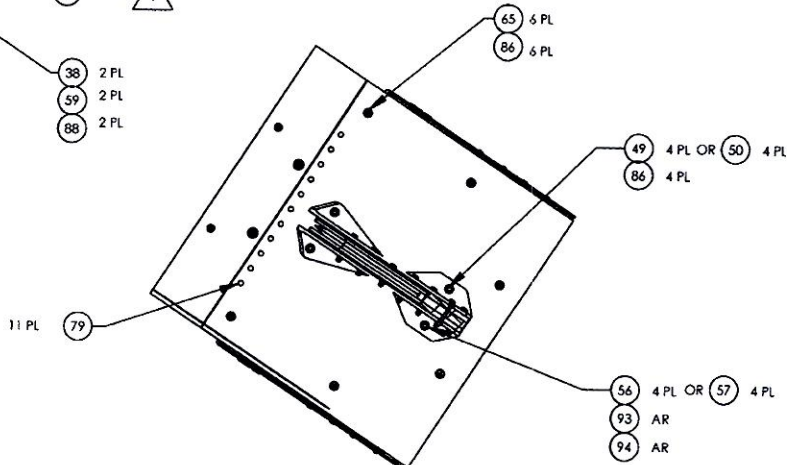
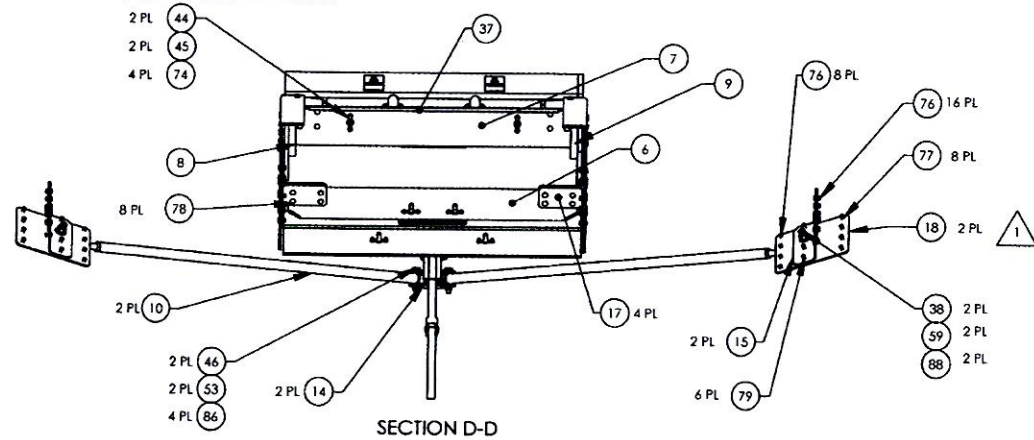
SECTION B-B



SECTION C-C

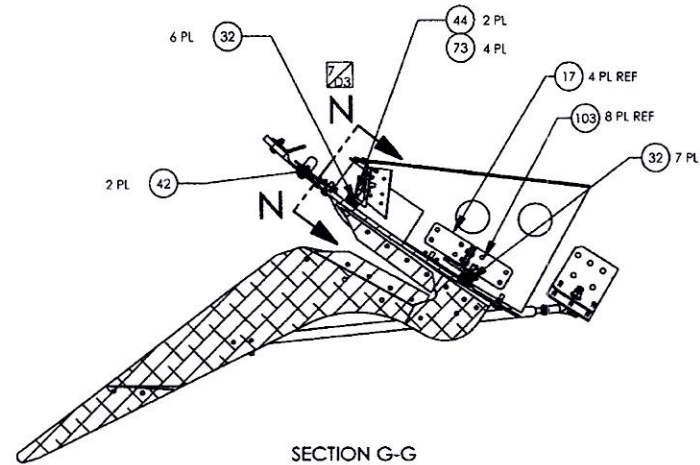
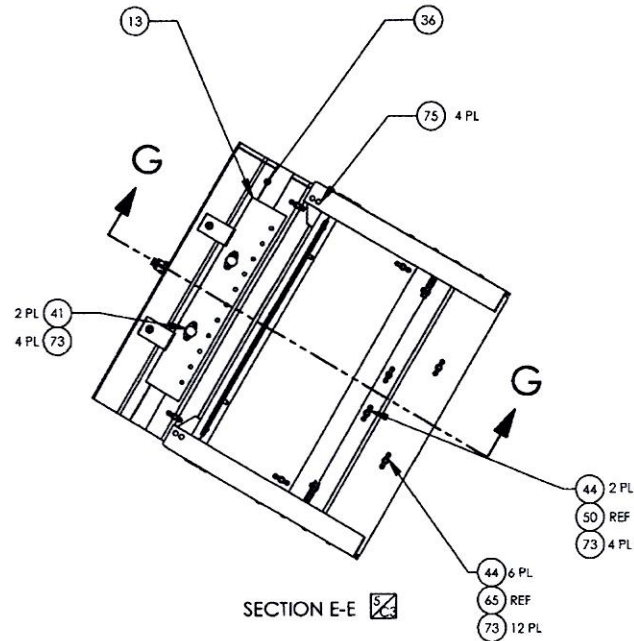
ORIGINAL DATE: 11/24/09		3030 ENTERPRISE CT., SUITE A	
DRAWN BY: CHECKER		VISTA, CA 92081	
A. GUAN		(760)-724-5300	
DRAWING APPROVAL: P. BRAYO		APICAL INDUSTRIES, INC.	
DATE: 01/11/10		DBA DART AEROSPACE	
CONTRACT NO.		EC135 CABLE CUTTERS KIT	
SHEET: B	CAGE CODE: 07M26	DWG. NO.: 647.7300	REV. C
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: 2 PLACE DECIMALS ± .01, 3 PLACE DECIMALS ± .005, ANGLES ± .5°		SCALE: NONE	SHEET: 4 OF 8

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DSA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DSA DART AEROSPACE IS PROHIBITED.



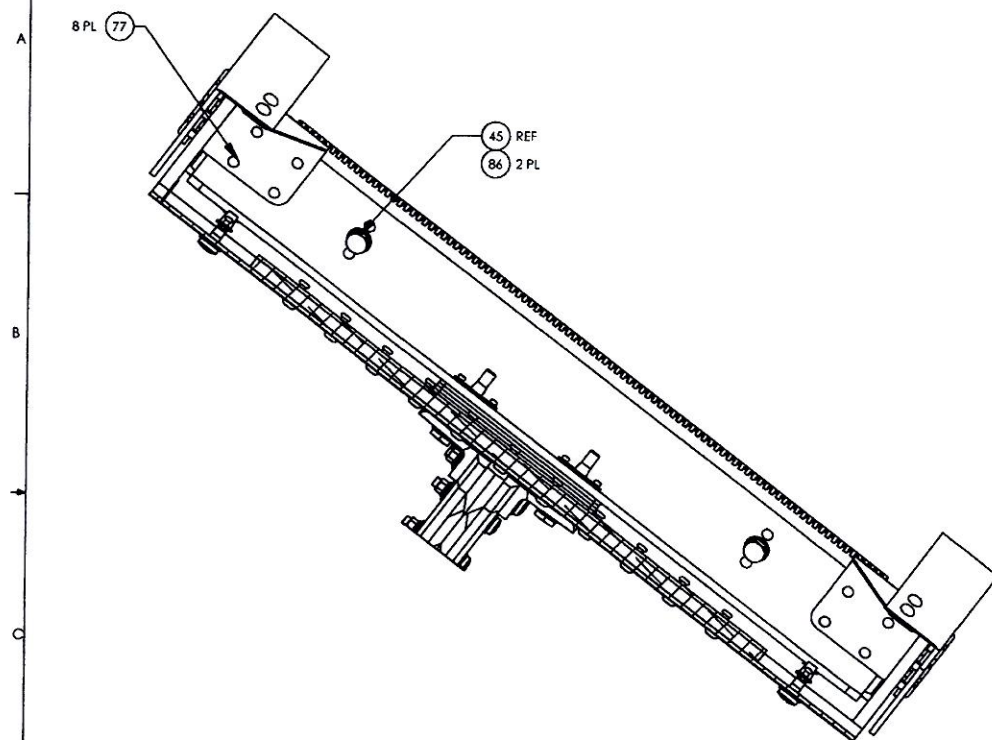
ORIGINAL DATE		11/20/00
DESIGNED BY		CHECKER
DRAWN BY		DATE
A. QUAN		D. BAKER
DRAWING APPROVAL		
D. BAKER		
CHECKED BY		
UNLESS OTHERWISE SPECIFIED		
DIMENSIONS ARE IN INCHES		
TOLERANCES ARE:		
2 PLACE DECIMALS ±.01		
3 PLACE DECIMALS ±.001		
ANGLES ±.5°		
DART 3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760) 724-5300		
APICAL INDUSTRIES INC. 980 DART AEROSPACE		
EC135 CABLE CUTTERS KIT		
SER	CAGE CODE	DWG. NO.
B	07M26	647.7300
SCALE	NONE	REV. C
SHEET		5 OF 8

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



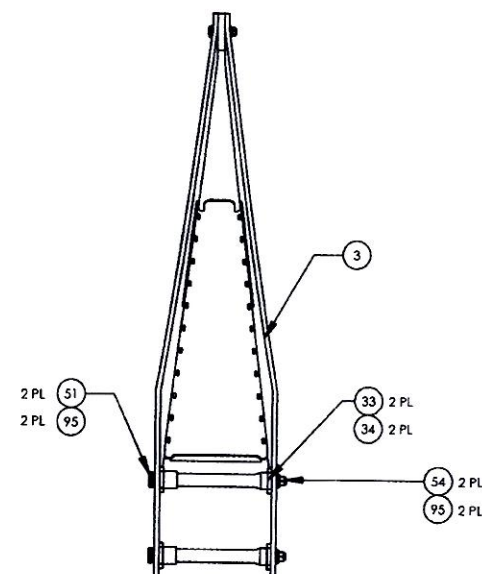
ORIGINAL DATE 11/24/09		DART 3030 ENTERPRISE CT., SUITE A	
DRAWN BY A. GUAN		VISTA, CA. 92081	
CHECKED BY D. BAKER		(760)-724-5300	
DRAWING APPROVAL P. BEATO		APICAL INDUSTRIES INC. DBA DART AEROSPACE	
CONTRACT NO.		EC135 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	SHEET B	CAGE CODE 07M26	DWG. NO. 647.7300
	SCALE NONE	REV. C	SHEET 6 OF 8

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DSA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DSA DART AEROSPACE IS PROHIBITED.



SECTION N-N

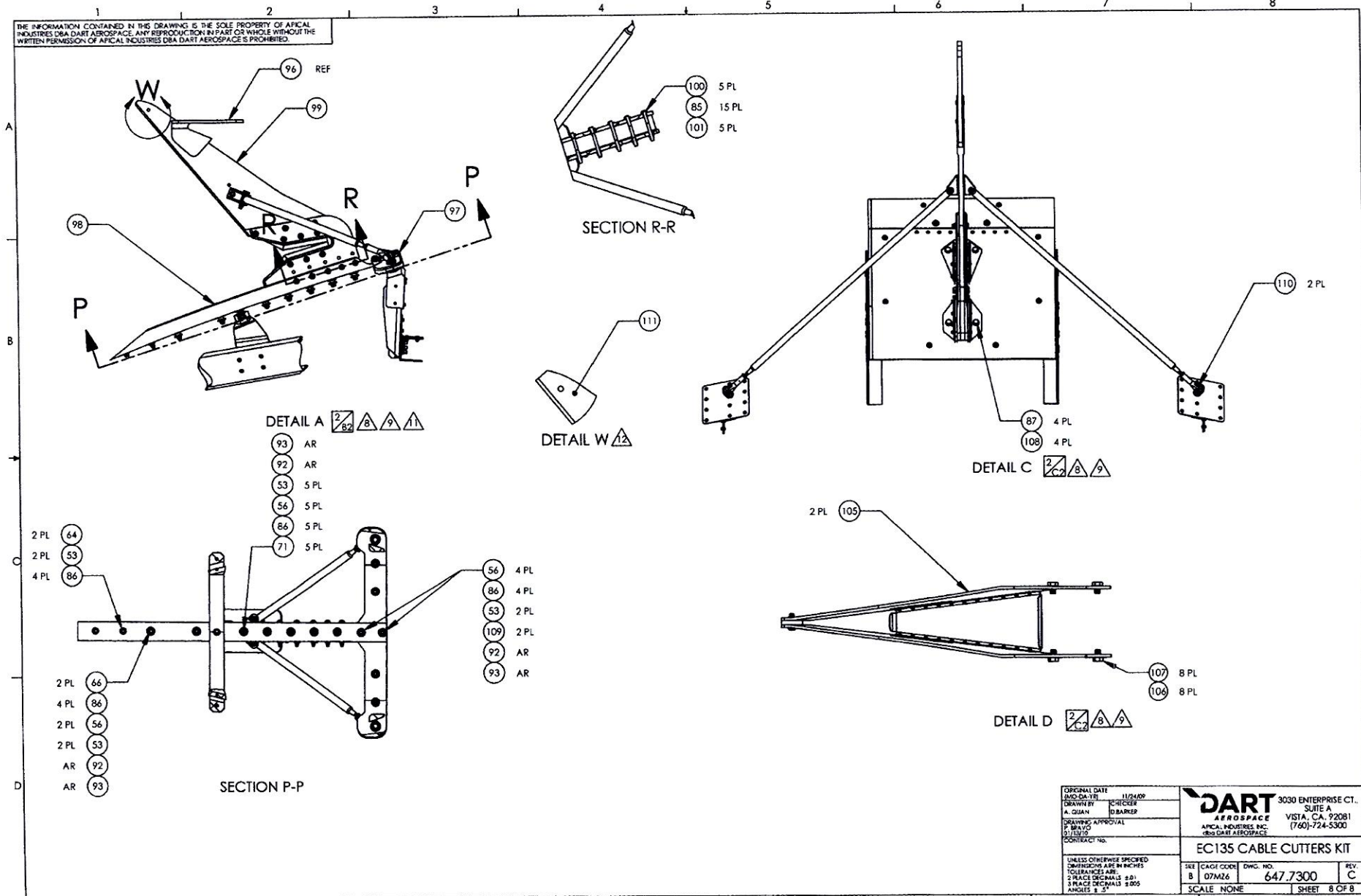
INBOARD



DETAIL D
TYP 2 PL

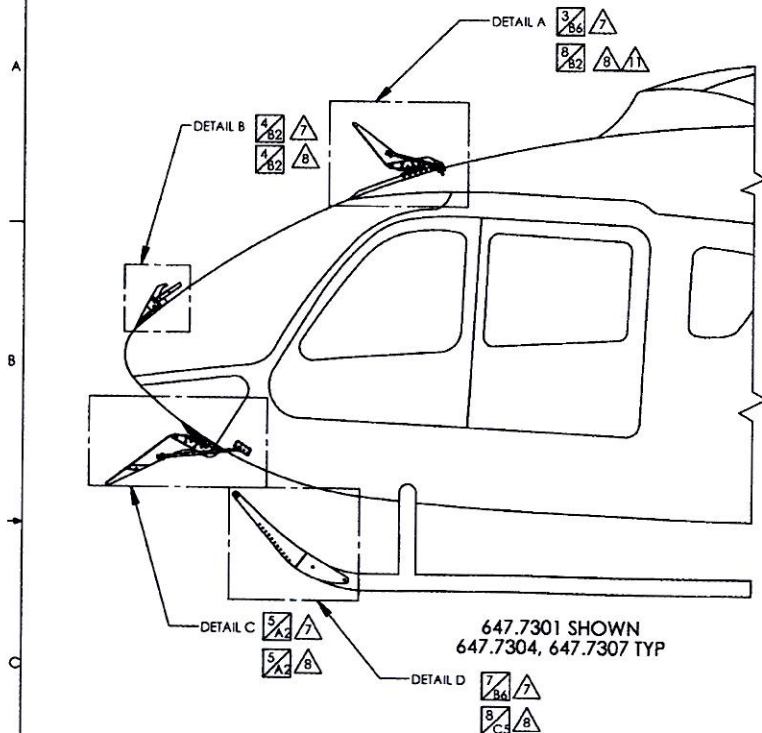
ORIGINAL DATE 11/24/09		3030 ENTERPRISE CT., SUITE A	
DRAWN BY A. QJAN		VISTA, CA, 92081	
CHECKED BY D. BAKER		(760)-724-5300	
DRAWING APPROVAL P. BRAYO 01/17/10		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONNECT NO.		EC135 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
SIZE B	CAGE CODE 07M26	DWG. NO. 647.7300	REV. C
SCALE NONE			SHEET 7 OF 8

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



REFERENCE ONLY

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647.7301 SHOWN
647.7304, 647.7307 TYP

1			111	647.1405	CUTTER ASSY (UPPER)		
2	2		110	601.3902	EYE BOLT		
2	2		109	601.2910	SCREW		
4	4		108	601.3963	BOLT	M52039-1-18	
8	8		107	601.3654	BOLT	93635A212	
8	8		106	601.3655	LOCK WASHER	LMP037-CRD18	
2	2		105	647.1702	SKID DEFLECTOR ASSY	LMP225-0B20K	
8	8	8	104	601.3214	CHERRY RIVET		
24	24	24	103	601.3213	CHERRY RIVET	CP3323-A-3	
4	4	4	102	601.3212	CHERRY RIVET	CM3329-4-4	
5	5		101	601.1541	LOCKNUT	CM3323-A-3	
5	5		100	601.2765	SCREW	M62104LJH	
1	1		98	647.2114	UPPER U CHANNEL	M52039-0B19	
1	1		97	647.7823	CROSS BRACKET AFT		
1	1	1	96	647.5701	GPS MOUNT KIT		
7307	7304	7301	RIND #	PART #	DESCRIPTION	MATL	SPEC

			8	95	601.1097	WASHER	NAS1149FO463P	
			1	94	647.7919	SHIM		
A/R	A/R	A/R	93	600.0990	MAGNOBOND 6398 PART A			
A/R	A/R	A/R	92	600.0991	MAGNOBOND 6398 PART B			
A/R	A/R	A/R	91	601.2045	RTV		LOCTITE 598	
A/R	A/R	A/R	90	600.1012	SEALANT		PR-1425 CLASS B	
3	3	3	89	601.2375	WASHER			
4	4	4	88	601.3126	WASHER		NAS1149FO302P	
12	12	8	87	601.3463	WASHER		NAS1149FO432H	
89	89	84	86	601.1607	WASHER		NAS1149FO032P	
25	25	14	85	601.2764	WASHER		NAS1149FH832P	
2	2	2	84	601.3136	CHERRY RIVET		CR3213-5-4	
8	8	8	83	601.3215	CHERRY RIVET		CR3213-5-3	
8	8	8	82	601.3216	CHERRY RIVET		CR3213-4-3	
12	12	12	81	601.2481	CHERRY RIVET		CR3213-5-4	
16	16	16	80	601.2020	CHERRY RIVET		CR3213-5-3	
17	17	17	79	601.2991	CHERRY RIVET		CR3213-4-6	
8	8	8	78	601.1183	CHERRY RIVET		CR3213-1-5	
16	16	16	77	601.1915	CHERRY RIVET		CR3213-4-4	
24	24	24	76	601.0790	CHERRY RIVET		CR3213-4-3	
4	4	4	75	601.1604	CHERRY RIVET		CR3213-4-2	
4	4	4	74	601.1983	NUT/PLATE RIVET		CR27455-3-03	
24	24	24	73	601.2207	NUT/PLATE RIVET		CR27455-3-03	
3	3	3	72	601.2999	SCREW			
5	5	6	71	601.2829	SCREW		MS2469-4-54	
2	2	2	70	601.1954	SCREW		MS27039-1-17	
4	4	4	69	601.2637	SCREW		MS27039-1-16	
1	1	1	68	601.3012	SCREW		MS27039-1-15	
4	4	4	67	601.1622	SCREW		MS27039-1-14	
2	2	2	66	601.1953	SCREW		MS27039-1-12	
6	6	6	65	601.1365	SCREW		MS27039-1-10	
12	12	12	64	601.3069	SCREW		MS27039-1-09	
3	3	3	63	601.2198	SCREW		MS27039-1-07	
		2	62	601.3137	SCREW		MS27039-0816	
4	4	4	61	601.2988	SCREW		MS27039-0813	
1	1	1	60	601.2525	SCREW		MS27039-0807	
4	4	4	59	601.3127	LOCKNUT		MS21042L5	
2	2	2	58	647.8512	INSERT			
4	4	4	57	647.8511	INSERT			
20	20	18	56	647.8510	INSERT			
4	4	4	55	601.3128	NUT		AN31604R	
4	4	8	54	601.3209	LOCKNUT		MS21042L4	
35	35	34	53	601.2943	LOCKNUT		MS21042-3	
5	5	7	52	601.2973	LOCKNUT		MS21042-08	
		4	51	601.3002	BOLT		MS26604-66	
7307	7304	7301	FIN#	PART #	DESCRIPTION		MATL	SPEC

ORIGINAL DATE (MM-DA-YR)		11/24/09
DRAWN BY A GUAN	CHECKED D. BARBER	
DRAWING APPROVAL P. BRAVO 01/13/10		
CONTRACT No.		

DART
AEROSPACE
APICAL INDUSTRIES INC.
3030 ENTERPRISE CT.
SUITE A
VISTA, CA. 92081
(760)-724-5300

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS $\pm .01$
3 PLACE DECIMALS $\pm .005$

EC135 CABLE CUTTERS KIT

SIZE B	CAGE CODE 07M26	DWG. NO. 647.7300	REV. C
SCALE NONE		SHEET 2 OF 8	

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NOTES: UNLESS OTHERWISE SPECIFIED

1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.

2 APPLY F/N 91 TO FAYING SURFACES.

3 DELETED.

4 MATCH DRILL HOLES THROUGH F/N 26 or F/N 98 AND FUSELAGE.

5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.

6 AT CUSTOMERS OPTION, INSTALL F/N 96 BY MATCH DRILLING ONTO F/N 1 FOR KIT P/N 647.7301 or F/N 99 FOR KIT P/N 647.7304.

7 647.7301 INSTALLATION FOR EC135.

8 647.7304 INSTALLATION FOR EC135 T2/P2.

9 EXCEPT WHERE NOTED, INSTALLATION FOR 647.7304 AND 647.7307 SAME AS 647.7301.

10 CUT LENGTH: 16 INCHES.

11 INSTALLATION FOR 647.7307 AND 647.7304 ARE IDENTICAL EXCEPT 647.1405 (F/N 111) REPLACES 647.1404 (F/N 99).

12 DETAIL W REFLECTS THE UNIQUE 647.1405 ASSEMBLY (F/N 111) USED ON 647.7307 THAT REPLACES 647.1404 (F/N 99) ON 647.7304.

13 ADDITIONAL KITS FOR SUB-ASSEMBLIES OF THE 647.7301, 647.7304, AND 647.7307 ASSEMBLIES ARE DEFINED BY MPP-195

REFERENCE ONLY

REVISION			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PH		N/C
A/C	INITIAL RELEASE	01/13/09	P. BRAVO
A	INCORPORATED ECH 020906, 00000, 03044, 03066	02/10/11	P. BRAVO
B	INCORPORATED ECH 030305	03/09/11	P. BRAVO
C	INCORPORATED ECH 030305, 05460	11/01/14	P. BRAVO

4	4	4	50	601.3130	BOLT	NAS6603-16	
4	4	4	49	601.1500	BOLT	NAS6603-12	
4	4	4	48	601.2669	BOLT	AN4C7A	
1	1	1	47	601.1324	BOLT	AN4CH6A	
4	4	4	46	601.2826	BOLT	AN3-11A	
2	2	2	45	601.2823	BOLT	AN3-4A	
12	12	12	44	600.0795	NUT/PLATE	MS21047-2	
2	2	2	43	601.3004	CAMLOC STUD		
2	2	2	42	601.3005	CAMLOC RETAINER		
2	2	2	41	601.3006	CAMLOC RECEPTACLE		
4	4	4	40	601.3119	CLEVIS	AN665-34R	
2	2	2	39	601.3120	EYE BOLT	AN44-12A	
			38	601.3121	EYE BOLT	AN44-5A	
1	1	1	37	601.3007	GROMMET	MS21244-2N	
A/R	A/R	A/R	36	601.3011	P-SEAL		
1	1	1	35	647.3201	GROUNDING CABLE ASSY		
			34	647.2511	NUT		
			33	647.2510	SLEEVE		
13	13	13	32	647.1812	SHIM		
2	2	2	31	647.1811	SPACER		
1	1	1	30	647.1602	DOUBLER ASSY		
1	1	1	29	647.1914	BRACKET		
1	1	1	28	647.7822	EYE BOLT FITTING RH		
1	1	1	27	647.7821	EYE BOLT FITTING LH		
			26	647.7818	MOUNTING CHANNEL		
7307	7304	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC

		1	25	647.7820	CROSS BRACKET AFT		
1	1	1	24	647.7819	CROSS BRACKET FWD		
1	1	1	23	647.7918	BRACKET		
1	1	1	22	647.7917	BRACKET		
2	2	2	21	647.7916	BRACKET		
1	1	1	20	647.7915	BRACKET		
1	1	1	19	647.7914	BRACKET		
2	2	2	18	647.7913	DOUBLER		
4	4	4	17	647.7912	CLIP		
2	2	2	16	647.7911	BRACKET		
2	2	2	15	647.7910	ANGLE BRACKET		
4	4	4	14	647.0112	STRUT BRACKET		
1	1	1	13	647.1810	NOSE DOOR DOUBLER		
1	1	1	12	647.1818	NOSE DOOR SPACER		
2	2	2	11	647.7701	STRUT ASSY		
2	2	2	10	647.7702	STRUT ASSY		
1	1	1	9	647.1815	GUSSET, RH		
1	1	1	8	647.1814	GUSSET, LH		
1	1	1	7	647.1915	SUPPORT ANGLE		
1	1	1	6	647.1913	TEE		
1	1	1	5	647.1610	WIPER DEFLECTOR, FWD		
1	1	1	4	647.1601	WIPER DEFLECTOR ASSY, AFT		
		2	3	647.1701	SKID DEFLECTOR ASSY		
1	1	1	2	647.7501	LOWER CUTTER ASSY		
		1	1	647.7401	UPPER CUTTER ASSY		
X				647.7307	EC135 T3/P3 CABLE CUTTERS KIT		
				647.7306	T2/P2 REMOVABLE PROVISIONS KIT		
				647.7305	T2/P2 FIXED PROVISIONS KIT		
X				647.7304	EC135 T2/P2 CABLE CUTTERS KIT		
				647.7303	T1/P1 REMOVABLE PROVISIONS KIT		
				647.7302	T1/P1 FIXED PROVISIONS KIT		
	X			647.7301	EC135 T1/P1 CABLE CUTTERS KIT		
7307	7304	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC

QTY	1	ORIGINAL DATE	11/21/09
NEXT ASSY (S)		DRAWN BY	A. QUAN
		CHECKED BY	03/09/11
		DRAWING APPROVAL	
		P. BRAVO	
		DATE	03/09/11
		CONTRACT NO.	
		UNLESS OTHERWISE SPECIFIED	
		DIMENSIONS ARE IN INCHES	
		TOLERANCES ARE:	
		3 PLACE DECIMALS ±.01	
		2 PLACE DECIMALS ±.005	
		ANGLES ±.5°	
300	B	CAGE CODE	07M26
		DWG. NO.	647.7300
		REV.	C
		SCALE	NONE
		SHEET	1 OF B

DART 3030 ENTERPRISE CT., SUITE A
VISTA, CA. 92081
(760)-724-5300

EC135 CABLE CUTTERS KIT